

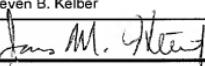
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UTILITY PATENT APPLICATION TRANSMITTAL <small>For new nonprovisional applications under 37 CFR 1.53(b)</small>		Attorney Docket No. 8344-001-27
		First Inventor or Application Identifier J. KEITH KELLY, ET AL.
		Title GARDEN AND AGRICULTURAL MATERIAL IDENTIFICATION METHOD AND APPARATUS

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents</small>		ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g. PTO/SB/17) (Submit an original and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification Total Pages 16</p> <p>3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) Total Sheets 7</p> <p>4. <input checked="" type="checkbox"/> Oath or Declaration Total Pages 3</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. §1.63(d)) (for continuation/divisional with box 15 completed)</p> <p>i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §1.63(d)(2) and 1.33(b).</p> <p>5. <input type="checkbox"/> Incorporation By Reference (useable if box 4B is checked) The entire disclosure of the prior application, from which a copy of the or a declaration or is supplied under Box 4B, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein</p>		
<p>ACCOMPANYING APPLICATION PARTS</p> <p>6. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))</p> <p>7. <input type="checkbox"/> 37 C.F.R. §3.73(b) Statement <input type="checkbox"/> Power of Attorney</p> <p>8. <input type="checkbox"/> English Translation Document (<i>if applicable</i>)</p> <p>9. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations</p> <p>10. <input type="checkbox"/> Preliminary Amendment</p> <p>11. <input checked="" type="checkbox"/> White Advance Serial No. Postcard</p> <p>12. <input type="checkbox"/> Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application. Status still proper and desired.</p> <p>13. <input type="checkbox"/> Certified Copy of Priority Document(s) (<i>if foreign priority is claimed</i>)</p> <p>14. <input type="checkbox"/> Other:</p>		

15. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below.			
<input type="checkbox"/> Continuation	<input type="checkbox"/> Divisional	<input type="checkbox"/> Continuation-in-part (CIP)	of prior application no.:
Prior application information:		Examiner:	Group Art Unit:
16. Amend the specification by inserting before the first line the sentence:			
<p><input type="checkbox"/> This application is a <input type="checkbox"/> Continuation <input type="checkbox"/> Division <input type="checkbox"/> Continuation-in-part (CIP) of application Serial No. Filed on</p> <p><input type="checkbox"/> This application claims priority of provisional application Serial No. Filed</p>			

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Signature: 	Date: 8/12/99
Name: James M. Heintz	Registration No.: 41,828

TITLE OF THE INVENTION

**GARDEN AND AGRICULTURAL MATERIAL
IDENTIFICATION METHOD AND APPARATUS**

BACKGROUND OF THE INVENTION

5 **Field of the Invention**

The present invention relates generally to the field of gardening and agriculture and more particularly to a method and apparatus for identifying an appropriate gardening or agricultural material based on responses to user queries.

Description of Related Art

10 There are a wide variety of regulated gardening and agricultural materials (hereinafter referred to as gardening materials) including, but not limited to, pesticides, fertilizers and seeds, that are available to today's gardeners, homeowners, pest-control operators, professional applicators, greens-keepers, extension agencies, state agencies, professional advisors, poison control centers and farmers. As used herein, a "pesticide" refers to a material which may be used to kill a pest. Pests may include insects, fungi, nematodes, snails/slugs, weeds and diseases. Pests may be found outside or inside the home. Accordingly, pesticides include such diverse products as flea sprays, bathroom tile cleaners, and pool cleaners as well as more familiar garden and farm pesticides.

15 A difficult decision arises when one has to select an appropriate gardening material to address a specific problem. For example, one type of pesticide is insecticide. When faced with an insect problem, one must first identify the type of insect. Then one must select an appropriate insecticide based on where (e.g. vegetable or other edible vegetation, ornamental shrub, lawn, house, etc.) the problem is occurring. Once the appropriate insecticide is identified, one must select from a number of commercial products and application methods

10 15 20

(e.g. powder, spray, systemic, time-released, etc.). Often one is not even aware of what the problem is (insect, fungus or other), but instead simply has a symptom as the sole basis of identification.

5 The aforementioned problem is further complicated by the fact that the "right" garden material may vary across different regions of the country and even different states in the same region. Additionally, the increasing sales of gardening materials by large chain stores with inadequately trained sales personnel further exacerbates the consumer's dilemma.

What is needed is a method and apparatus for identifying an appropriate gardening material based on user input.

SUMMARY OF THE INVENTION

The present inventions meet the aforementioned need to a great extent by providing a method and apparatus for identifying gardening materials based on user responses to a series of queries. The queries allow the gardener to specify the type of area (e.g. lawn, garden, etc.) in which a problem exists; the type of problem (e.g. insect, fungus, characteristics of the problem, etc.); and the geographic location of the problem. In a preferred embodiment, the geographic location may be specified by zip code, state, region of the country, or any combination of these. The ability to specify geographic location by state is especially helpful when choosing gardening materials such as pesticides, fertilizers and lawn seeds because such materials are regulated by state. A pesticide that is legal in one state may not be legal in the next. Even if a pesticide is legal in a state, it may not be legal for all applications. For example, a pesticide that is legal in one state for vegetables as well as ornamental shrubs may not be legal for vegetables in other states. Specifying a location by both state and region is especially useful for large states with relatively large climatic variation such as California.

Once the appropriate user responses have been obtained, appropriate garden materials are identified to the user. In a preferred embodiment, the gardening materials are identified by both ingredient (e.g. diazinon, Kentucky bluegrass) and brand name (e.g. Ortho®, Scotts®). In a preferred embodiment, the method is performed by an Internet site and the user is given the choice of purchasing the products online or a local retailer from whom the products are available is identified to the gardener. In another preferred embodiment, the method is performed within garden retailers through a stand-alone or networked computer system, which may be referred to as a point-of-sale system or display.

BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing and other advantages and features of the present inventions will be more readily understood with reference to the following figures, in which:

Figure 1 is a portion of a flowchart of a method for identifying gardening materials according to one embodiment of the present invention.

Figure 2 is a second portion of the flowchart of Figure 1.

Figure 3 is a third portion of the flowchart of Figure 1.

Figure 4 is a diagram showing regions of the U.S. according to one embodiment of the present invention.

Figure 5 is a fourth portion of the flowchart of Figure 1.

Figure 6 is a fifth portion of the flowchart of Figure 1.

Figure 7 is a block diagram of a system according to an embodiment of the present invention.

DETAILED DESCRIPTION

The present inventions will be discussed with reference to preferred embodiments of a method in the form of a computer program. Numerous specific details, such as specific country regions, specific user queries, the order of the queries, etc. are set forth in order to provide a thorough understanding of the present inventions. The preferred embodiments described herein are for the purposes of illustration only and should not be understood to limit the inventions.

The inventions will be discussed with reference to a flowchart. The flowchart makes numerous mention of querying a user for information. This act may be performed in a number of different ways. For example, in a preferred embodiment, the invention is practiced as an Internet site. In such an embodiment, the act of querying is performed by presenting a user with a number of choices that the user may "click" on to indicate a response. Such choices may be presented textually, such as by providing a number of hypertext links that move the user to a different portion of a hypertext document or different documents; or graphically, such as by providing a map of the U.S. divided into different regions so that users may "click" on the desired region to indicate their response. The regions may likewise be links to different portions of the hypertext document or to other documents.

Many other embodiments are also contemplated. Such embodiments include point-of-sale displays, which may provide for simple textual interaction (such as an embodiment in which the display consists of a simple alphanumeric device and a user responds with a numerical keypad to a series of textual inquiries) or more complex world-wide-web-like interaction. Obviously, embodiments such as point-of-sale embodiments may not have some of the features included in preferred embodiments discussed herein, such as presenting a user

with a list of retail outlets where the product may be purchased (although a list of store locations may be presented).

A portion of a flowchart 100 of a preferred embodiment of the invention is illustrated in Figure 1. A user is queried for the state in which the gardening problem exists at step 102.

5 The user's response is input at step 104. Knowledge of the state in which a problem such as an insect infestation is occurring is mandatory because pesticides may be approved for use only in some states and may be approved for only certain uses in states where the pesticides are approved. The user is queried for the location of the gardening problem at step 106.

10 Among the possible locations are flowers, vegetables, lawn, fruits, trees/shrubs, pets, homes, and pools/spas. The user's response is input at step 108. The user is then queried for the type of problem at step 110 and the user's response is input at step 112. If the user's response indicates a pest problem at step 114, step 202 is performed next. Otherwise, if the user's response indicates a fertilizer need at step 116, step 302 is performed next. If the user's response indicates neither a pest problem nor a fertilizer problem, the user desires 15 information pertaining to seeds and step 502 is performed next.

20 Referring now to Figure 2, if the user has indicated a pest problem, the category of the pest is requested at step 202. Among possible pest categories are insects, fungi, nematodes, snails/slugs, weeds and diseases. The user's response is input at step 204. Next, the user is asked to identify the pest type at step 206. The pest type is the specific pest that is causing the problem (e.g., Japanese beetle, dandelion). In an embodiment such as a web site, step 206 may include presenting a user with a textual list of pest types. If the user does not know the name of the pest at step 206, the user may be presented with illustrations to help the user identify the name of the pest at step 207. In a simple alphanumeric point-of-sale display such

as that discussed above, such illustrations may be presented in a printed book associated with the display.

It should be noted that a user may not be able to specify a pest type at step 202. For example, if a user is concerned with a plant whose leaves are turning brown, the user may not know whether the cause is a fungus on the leaves, an insect, or a snail or slug attacking the plant's roots. To accommodate such situations, step 202 may also include allowing a user to select a symptom (e.g. brown leaf) rather than a specific pest. Further inquiries and responses (Are the brown leaves withered? Are there holes in the brown leaves?) may then be used to elicit further description of the problem such that a probable pest can be identified.

The pest type identified by the user is input at step 208. Where appropriate, the user is queried for the plant type at step 210. One situation in which the plant type query of step 210 is useful is where the user has specified a problem location such as "lawn," because the preferred chemical for killing dandelions may differ for Kentucky bluegrass and Bahia grass. If the plant type query of step 210 is made, the user's response is input at step 212. The database is then searched at step 214 using the information supplied by the user (state, pest category and type, plant type, where the pest is found, etc.). Appropriate products are then listed at step 214. The user may also be presented with a "More Information" button for some or all of the products listed at step 214 (and in other instances where products are listed as discussed below). This option allows a user to view a video or listen to an audio file explaining how to use the product or view research trials to help determine the best solution to their problem. The process then continues at step 602 (discussed further below).

Referring now to Figure 3, if a user indicates the need for fertilizer, the user is queried for the plant type (e.g., lawns, trees, shrubs, vegetables, fruit, indoor) at step 302 and the user's response is input at step 304. If the user indicates that the plant type is indoor at step

304, then the user is further queried as to the type of indoor plant (e.g., African violet, orchid, cactus, tropical, etc.). The user is queried for the desired application method (e.g. granular, liquid, water-soluble, stakes or spikes) at step 306. The user's response is input at step 308.

5 The user is then queried for region of the country at step 310. In a preferred embodiment, the user is queried for the region of the country by presenting the user with a map of the country divided into different regions, such as the map 400 of Figure 4. The regions of the country may comprise USDA Hardiness Zones, or may be defined differently, depending upon the particular application. The regions of the country may also be different for different purposes. For example, the country may be divided into one set of regions for lawn fertilizer inquiries, while a different set of regions may be applicable for lawn seed inquiries. Although the user has already indicated the state of interest, it will be apparent from Figure 4 that states may fall into two or more regions. This is especially true of large states such as California and Texas. The region of the country indicated by the user is input at step 312.

10 After the user responses have been input, the database is searched for an appropriate product based on the user responses at step 314. The products are then listed for the user at step 316. The process then continues at step 602 (discussed further below).

20 Referring now to Figure 5, if the user desires information pertaining to seeds, the user is queried for seed type (e.g. fescue, bermuda, centipede) at step 502 and the user's response is input at step 504. The user is queried for local conditions at step 506. Local conditions again may depend upon seed type. For example, if a user has indicated that they desire bluegrass seeds, the specific bluegrass variety may depend upon how much shade is received in the area of interest to the user; thus, amount of shade may be a relevant local condition and, in an Internet embodiment of the present invention, a user may be presented with choices

such as "sunny," "shady," and "partly shady." The user's response to the local conditions query is input at step 508.

The user is then queried for the relevant region of the country at step 510. As discussed above, in a preferred embodiment, this query is made by presenting a user with a map of different regions such as the map 400 of Figure 4. The user's response is input at step 512.

The user is queried for the way in which the seed will be used (e.g. new lawn, patching, or over seeding) at step 516. The user's response is input at step 518. The user is then asked to select a lawn quality at step 520. As used herein, lawn quality refers to whether a grass is a cool season grass (a grass such as fescue that stays green in winter but struggles in hot weather) or a warm season grass (a grass such as bermuda that browns in winter but thrives in warm weather). The user's response is input at step 522.

After the user responses have been input, the database is searched for an appropriate product based on the user responses at step 524. The products are then listed for the user at step 526. The process then continues at step 602.

After the list of appropriate products is presented to the user, the user is queried as to whether the user wishes to see the label of a product at step 602. Seeing the label of a product allows the user to determine, for example, the application methods and application rates with which the product may be used. Seeing the label and MSDS (Material Safety Data Sheet) also allows the user to determine any safety concerns that may impact the user's decision as to whether the product is appropriate. For example, certain insecticides that may be appropriate for use on ornamental shrubs may indicate that the pesticide should not be used while pets are around, until the product has dried.

1 If the user indicates a desire to see the label, the label is displayed by state at step 606.

2 As discussed above, different states may regulate substances such as fertilizers, seed and
3 pesticides differently. These regulations may require different labels, reflecting possible
4 differences such as sites and pests, to be placed on the product labels. If the product is a
5 pesticide, the MSDS for that pesticide may be displayed in addition to or in place of the
product label at step 606.

10 The user is next queried as to whether a product purchase is desired at step 608. If the
user indicates that a purchase is desired at step 610, the product is added to a list of purchases
at step 612 and step 618 is performed next. If the user indicates that a purchase is not desired
at step 610, the user is queried as to whether the location of a retailer selling the product is
desired at step 614. If the user indicates that a retailer location is desired, the location of at
least one retailer (and perhaps many) is displayed at step 616. In order to facilitate locating a
retailer in close proximity to the user, the user's zip code may be obtained during step 616.

15 The user is then queried as to the existence of additional gardening problems at step
618. If the user has additional gardening needs, step 106 is repeated. Otherwise, the
checkout process is performed at step 620. The checkout process is the process of collecting
shipping and payment information from the user if the user has indicated the desire to
purchase any of the previously-identified products. As part of the checkout process, the state
selected in step 102 is compared to the "ship to" address. This verification guarantees
20 compliance with state regulatory requirements. Checkout marks the end of the process.

Besides the specific inquiries discussed above, any number of additional queries may
also be appropriate. Such queries will depend upon the specific material of interest.

A database has been mentioned in connection with the description of many of the
steps described above. The database allows products to be identified by numerous criteria,

such as legality by state, usefulness against various pests, appropriateness for various sites (e.g. vegetables, flowers, house, etc.) and other criteria as described above. The database may also contain illustrations of various pests to facilitate their identification by the user. The database may contain various other elements (e.g. ingredients, manufacturer, application method, etc.) depending upon the specific application. Such a database may be implemented using any number of commercially-available database products which are well-known to those of skill in the art and need not be discussed in further detail herein.

Figure 7 is a hardware block diagram of a system 700 including a processor 710 attached via a signaling path 740 to a user I/O device 720 and a storage device 730. In a preferred embodiment, the processor 710 comprises an Internet server, the user I/O device 720 comprises a personal computer equipped with an Internet browser, and the signaling path 740 comprises, at least partially, an Internet connection via the public switched telephone network. The aforementioned database is stored in storage device 730. In other preferred embodiments, such as point-of-sale terminals, the user I/O device comprises a simple alphanumeric display and keypad, while the signaling path 740 comprises a hard-wired connection to the processor 710.

A method and apparatus for identifying an appropriate gardening material has been described. The method identifies an appropriate gardening product based upon user responses to a plurality of inquiries. In a preferred embodiment, the method is practiced as an Internet site that provides the user with the opportunity to purchase identified gardening materials through the Internet. In a preferred embodiment, the gardening materials are identified based at least in part upon the geographic location of the user, which may be specified by state, zip code, region of the country, or any combination of these. The product

label, which may differ from state to state, is also displayed in a preferred embodiment based upon the state indicated by the user.

While the invention has been described in detail in connection with the preferred embodiments known at the time, it should be readily understood that the invention is not limited to such disclosed embodiments. Rather, the invention can be modified to incorporate any number of variations, alterations, substitutions or equivalent arrangements not heretofore described, but which are commensurate with the spirit and scope of the invention.

Accordingly, the invention is not to be seen as limited by the foregoing description, but is only limited by the scope of the appended claims.

100-200-300-400-500

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WHAT IS CLAIMED IS:

1. A method for identifying a gardening material comprising the steps of:
presenting a user with at least one inquiry;
identifying at least one gardening material based upon a response to the inquiry.
2. The method of Claim 1, further comprising the step of:
offering the user the opportunity to purchase the at least one gardening material.
3. The method of Claim 1, further comprising the step of displaying a label
associated with the gardening material to the user.
4. The method of Claim 1, wherein at least one inquiry is directed toward the user's
state and the at least one gardening material is identified based at least partially upon the
user's response to the inquiry directed toward the user's state.
5. The method of Claim 4, further comprising the step of displaying a label
associated with the gardening material to the user, wherein the label varies depending upon
the user's response to the inquiry directed toward the user's state.
6. The method of Claim 5, wherein the label is a material safety data sheet.
7. The method of Claim 5, wherein the label is a label applied to the gardening
material for retail sales.
8. The method of Claim 1, wherein at least one inquiry is directed toward the user's
region of the country at least one gardening material is identified based at least partially upon
the user's response to the inquiry directed toward the user's region of the
country.
9. The method of Claim 1, further comprising the steps of:

presenting the user with at least one inquiry directed toward the symptoms of a problem observed by the user; and

identifying a pest based upon the user's responses to the inquiry.

10. The method of Claim 9, wherein the pest is a pest selected from the group

5 consisting of: insects, fungi, nematodes, snails, slugs, weeds and diseases.

11. The method of Claim 1, wherein the gardening material is a gardening material selected from the group consisting of pesticides, fertilizers and seeds.

12. The method of Claim 1, further comprising the step of displaying a list of retailers from which the gardening material is available.

13. A system for identifying a gardening material, the system comprising:

a storage device for storing a database of gardening material;

a user input/output device; and

a processor connected to the storage device and the user input/output device, the processor being configured to perform the steps of

presenting a user with at least one inquiry via the user input/output device;

identifying at least one gardening material based upon a response to said inquiry.

14. The system of Claim 13, wherein the user input/output device comprises a

computer including an Internet browser and the user input/output device is connected to the 20 processor at least partially through the Internet.

15. The system of Claim 13, wherein the processor is further configured to perform the step of:

offering the user the opportunity to purchase the at least one gardening material.

16. The system of Claim 13, wherein the processor is further configured to perform
the step of displaying a label associated with the gardening material to the user.

17. The system of Claim 13, wherein at least one inquiry is directed toward the user's
state and the at least one gardening material is identified based at least partially upon the
user's response to the inquiry directed toward the user's state.

5 18. The system of Claim 17, further comprising the step of displaying a label
associated with the gardening material to the user, wherein the label varies depending upon
the user's response to the inquiry directed toward the user's state.

19. The system of Claim 18, wherein the label is a material safety data sheet.

20. The system of Claim 18, wherein the label is a label applied to the gardening
material for retail sales.

21. The system of Claim 13, wherein at least one inquiry is directed toward the user's
region of the country at least one gardening material is identified based at least partially upon
the user's response to the inquiry directed toward the user's region of the
country.

22. The system of Claim 13, wherein the processor is further configured to perform
the steps of:

20 presenting the user with at least one inquiry directed toward the symptoms of a
problem observed by the user; and

identifying a pest based upon the user's responses to the inquiries.

23. The system of Claim 22, wherein the pest is a pest selected from the group
consisting of: insects, fungi, nematodes, snails, slugs, weeds and diseases.

24. The system of Claim 13, wherein the gardening material is a gardening material
selected from the group consisting of pesticides, fertilizers and seeds.

25. The system of Claim 13, wherein the processor is further configured to perform the step of displaying a list of dealers from which the gardening material is available.

ABSTRACT

A method and apparatus identifies an appropriate gardening based upon user responses to a plurality of inquiries. Inquiries may include location of the gardening need (lawn, vegetable, house, pet, etc.), as well as type of pest (insect, weed, etc.). In a preferred embodiment, the method is practiced as an Internet site that provides the user with the opportunity to purchase identified gardening materials through the Internet. In a preferred embodiment, the gardening materials are identified based at least in part upon the geographic location of the user, which may be specified by zip code, state, region of the country or any combination of these. The product label, which may differ from state to state, is also displayed in a preferred embodiment based upon the state indicated by the user.

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FIGURE 1

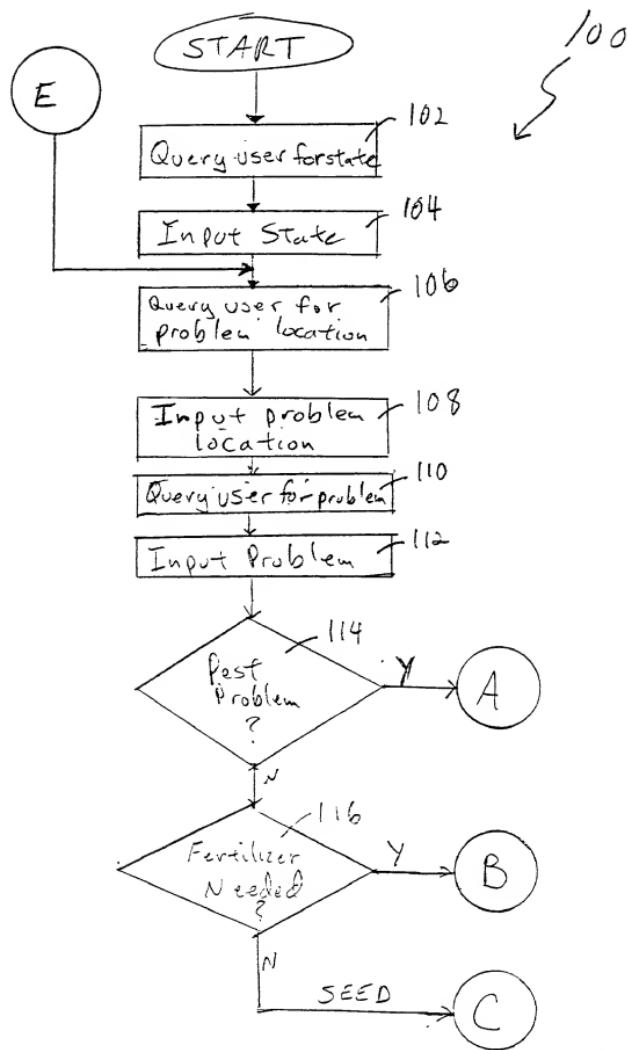


FIGURE 2

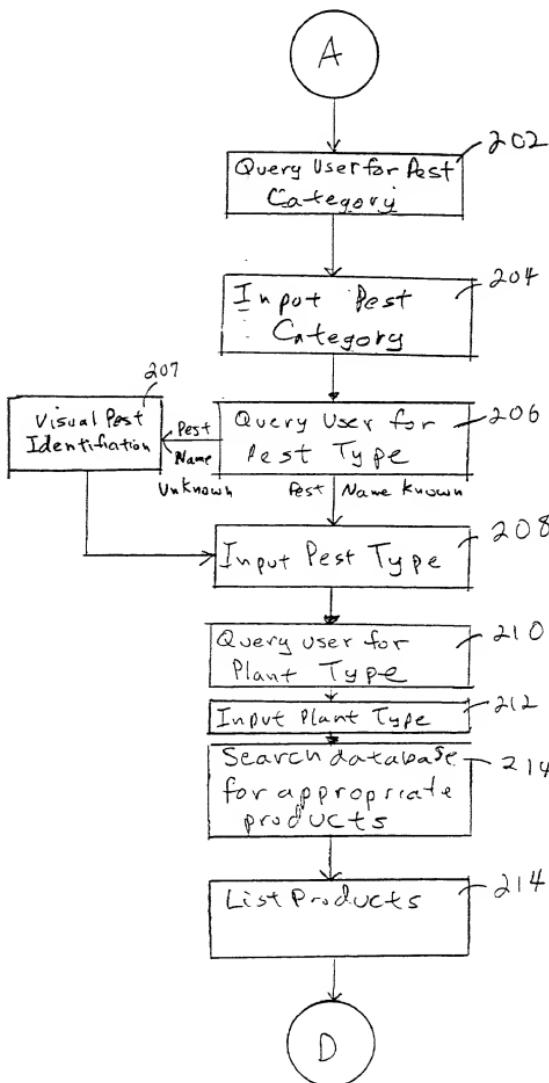


FIGURE 3

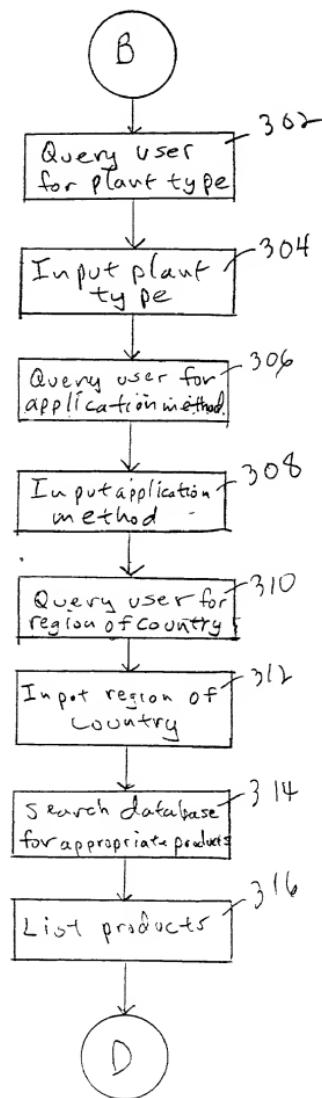


FIGURE 4

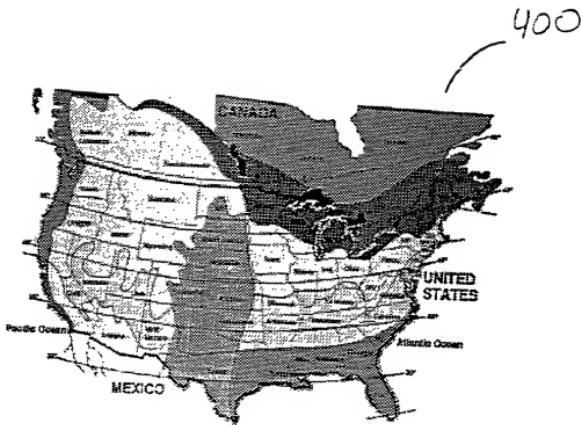


FIGURE 5

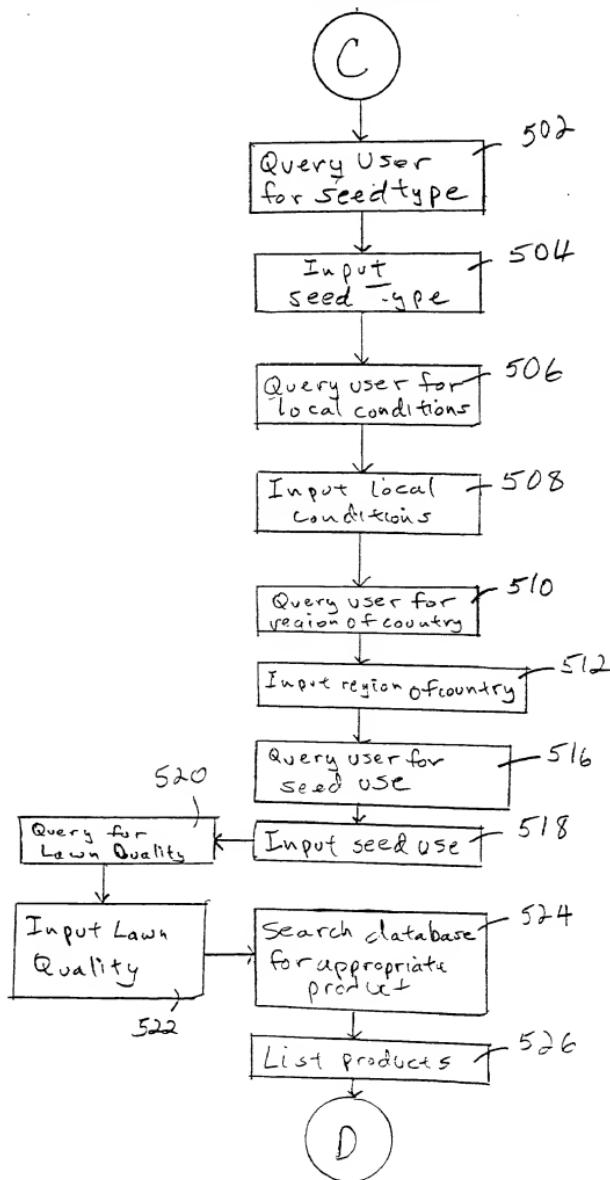


FIGURE 6

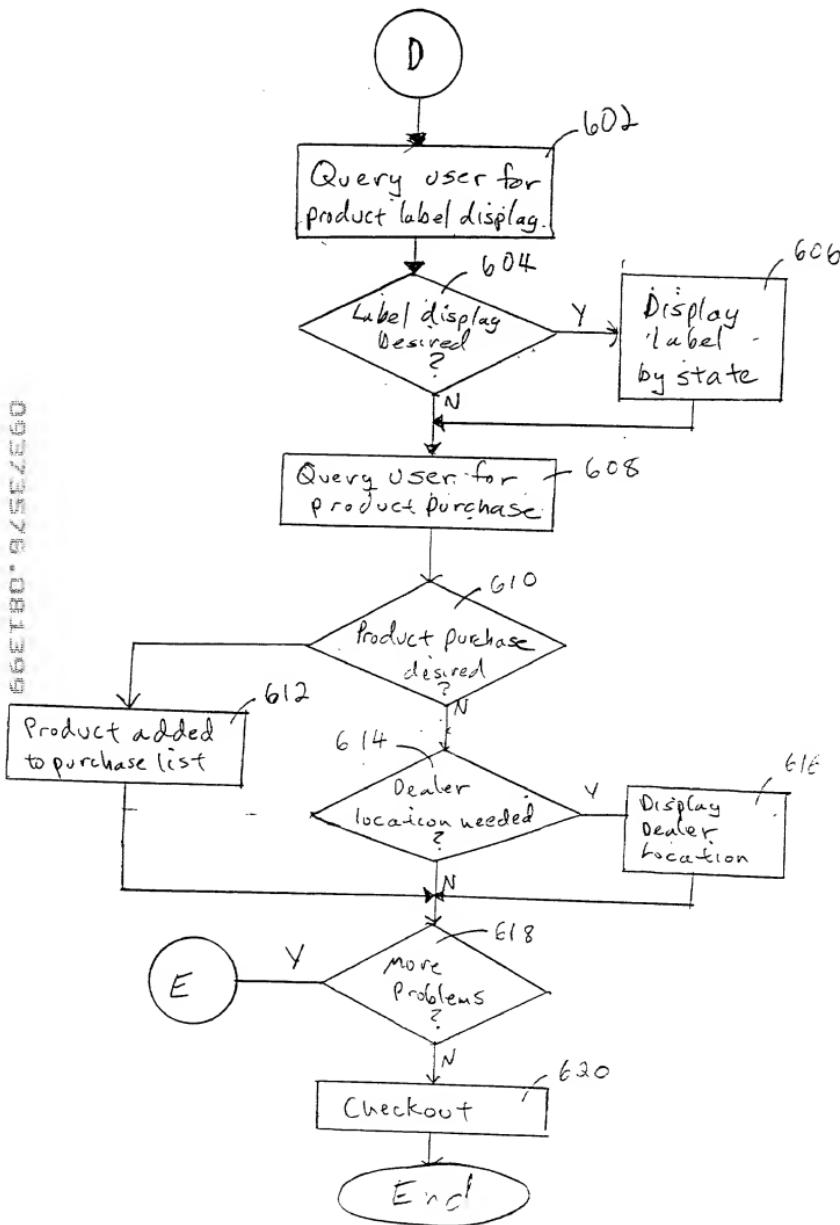
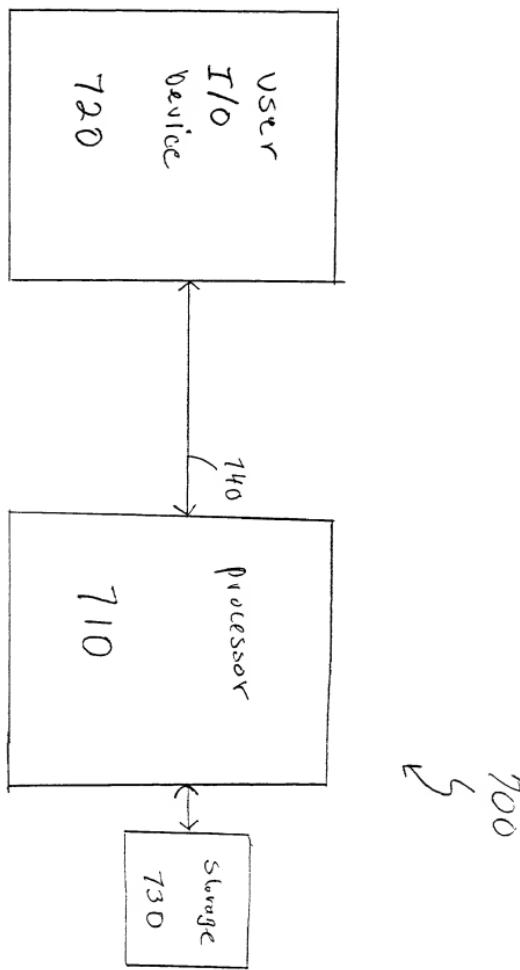


FIGURE 7



Declaration, Power of Attorney and Petition

WE (I) the undersigned inventor(s), hereby declare(s) that:

My residence, post office address and citizenship are as stated below next to my name,

We (I) believe that we are (I am) the original, first, and joint (sole) inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Garden and Agricultural Material Identification Method and Apparatus

the specification of which

is attached hereto.

was filed on _____
as Application Serial No. _____
and amended on _____

was filed as PCT international application
Number _____
on _____
and was amended under PCT Article 19
on _____ (if applicable).

We (I) hereby state that we (I) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We (I) acknowledge the duty to disclose information known to be material to the patentability of this application as defined in Section 1.56 of Title 37 Code of Federal Regulations.

We (I) hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s)

Application No.	Country	Day/Month/Year	Priority Claimed
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

We (I) hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

(Application Number)

(Filing Date)

(Application Number)

(Filing Date)

We (I) hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application Serial No.

Filing Date

Status (pending, patented, abandoned)

And we (I) hereby appoint Steven B. Kelber, Reg. No. 30,073; Marc R. Labgold, Ph.D., Reg. No. 34,651; Sharon E. Crane, Ph.D., Reg. No. 36,113; Catherine Bax Richardson, Reg. No. 39,007 and James M. Heintz, Reg. No. 41,828 as our (my) attorneys, with full powers of substitution and revocation, to prosecute this application and to transact all business in the Patent Office connected therewith; and we (I) hereby request that all correspondence regarding this application be sent to Steven B. Kelber of Long Aldridge & Norman LLP, Attorneys At Law, 6th Floor, 701 Pennsylvania Avenue, N.W., Washington, D.C. 20004.

We (I) declare that all statements made herein of our (my) own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Signature of Inventor

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